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NOTICE OF ALLOWANCE AND FEE(S) DUE

38456

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09/03/2009

DENIRO/RAMBUS 575 MARKET STREET SUITE 2500 SAN FRANCISCO, CA 94105

EXAMINER				
PANWALKAR, VINEETA S				
ART UNIT PAPER NUMBER				

2611 DATE MAILED: 09/03/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,027	09/30/2003	Dennis Kim	RAMB-01016US0	5412

TITLE OF INVENTION: CLOCK-DATA RECOVERY ("CDR") CIRCUIT, APPARATUS AND METHOD FOR VARIABLE FREQUENCY DATA

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	12/03/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

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							(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO)R	ATTO	RNEY DOCKET NO.	CONFIRMATION NO.
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	R, VINEETA S	2611	375-354000	_			
"Fee Address" inc PTO/SB/47; Rev 03- Number is required. 3. ASSIGNEE NAME A PLEASE NOTE: Un	AND RESIDENCE DATA less an assignee is ident th in 37 CFR 3.11. Comp	" Indication form ned. Use of a Customer A TO BE PRINTED ON	data will appear on the	gle firm (having as r agent) and the nan torneys or agents. If e printed. ype) patent. If an assign assignment.	a memb nes of u no nam	p to p to ge is 3dentified below, the do	ocument has been filed for
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575 MARKET ST	REET		ART UNIT	PAPER NUMBER		
SUITE 2500 SAN FRANCISCO, CA 94105			2611 DATE MAILED: 09/03/200	9		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 315 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 315 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)
	10/675,027	KIM ET AL.
Notice of Allowability	Examiner	Art Unit
	 VINEETA S. PANWALKAR	2611
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a or other appropriate communicating GHTS. This application is subject and MPEP 1308.	application. If not included on will be mailed in due course. THIS to withdrawal from issue at the initiative
2. The allowed claim(s) is/are 1,3,5-8,10-24,30,34-38, now re	numbered 1-27 .	
3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE".	nder 35 U.S.C. § 119(a)-(d) or (f). been received. been received in Application No. cuments have been received in th	is national stage application from the
noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	IENT of this application. itted. Note the attached EXAMINE	ER'S AMENDMENT or NOTICE OF
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the deposit of t	st be submitted. son's Patent Drawing Review (PT . s Amendment / Comment or in the84(c)) should be written on the dra he header according to 37 CFR 1.12 sit of BIOLOGICAL MATERIA	O-948) attached e Office action of wings in the front (not the back) of e1(d). L must be submitted. Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. ☐ Notice of Informa 6. ☐ Interview Summa Paper No./Mail I 7. ☒ Examiner's Amer 8. ☒ Examiner's State 9. ☐ Other	ry (PTO-413), Date

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Kirk DeNiro (Reg. No. 35854) on 8/20/09.

The application has been amended as follows:

2. In the claims:

2a. Replace claim 1 with:

--1) (Currently Amended) A circuit, comprising:

a clock circuit capable of generating a clock signal having a phase, the clock circuit including a phase adjuster capable of making an adjustment to the phase of the clock signal during each of a plurality of adjustment cycles in response to an adjustable phase step-size;

a sampler, coupled to the clock circuit, capable of receiving, in response to the clock signal, a data signal having a variable data bit-rate by outputting sampled data bits as received data signal; and

wherein the circuit further includes phase detection and logic circuitry capable of stalling adjustment of the phase of the clock signal during one or more current adjustment cycles in response to data phase

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information derived from a plurality of data bits during one or more previous adjustment cycles,

wherein the circuit further includes a phase adjust step-size logic capable of outputting the adjustable phase step-size having an adjustable magnitude dependent on the variable data bit-rate. --

2b. Cancel claim 2.

2c. Replace claim 3 with:

--3) (Currently Amended) The circuit of claim 1, wherein the phase adjust stepsize logic is capable of outputting the adjustable phase step-size having a direction dependent on the variable data bit-rate. --

2d. Replace claim 10 with:

--10) (Currently Amended) A circuit, comprising:

a clock circuit capable of generating a clock signal in response to an adjustable phase step-size; and

a sampler, coupled to the clock circuit, capable of receiving, in response to the clock signal, a data signal having a variable data bit-rate,

wherein the circuit includes an indicator capable of adjusting the adjustable phase step-size in response to the variable data bit-rate,

wherein the circuit includes a counter for obtaining a first step-size and the indicator provides a second step-size, wherein the first step-size and the second step-size are summed to obtain the adjustable phase step-size. --

2e. Replace claim 12 with:

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--12) (Currently Amended) The circuit of claim 1, wherein the circuit includes an averaging circuit capable of averaging a plurality of up signals to obtain an average up value and a plurality of down signals to obtain an average down value, and outputting the adjustable phase step-size in response to a comparison of the average up value and the average down value. --

2f. Replace claim 14 with:

- --14) (Currently Amended) A circuit, comprising:
- a clock circuit capable of generating a clock signal in response to a phase adjust signal;
- a sampler, coupled to the clock circuit, capable of receiving, in response to the clock signal, a data signal having a variable data bit-rate; and,

wherein the circuit comprises,

- a first stage, coupled to the sampler, capable of outputting a first stage output signal in response to a sampled data signal;
- a second stage, coupled to the first stage, capable
- of outputting a second stage output signal in response to the first stage output signal;
- a third stage capable of outputting the phase adjust signal in response to the second stage output signal; and,
- stall logic, coupled to the first, second and third stages, and capable of holding the phase adjust signal in response to the first and second stage output signals. --

2g. Replace claim 18 with:

--18) (currently amended) A circuit, comprising:

a clock circuit capable of generating a clock signal in response to a phase adjust signal having an adjustable step-size; and,

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a sampler capable of receiving, in response to the clock signal, a data signal having a variable data bit-rate;

wherein the circuit includes,

a first stage, coupled to the sampler, capable of outputting a first stage output signal in response to a sampled data signal;

a second stage, coupled to the first stage, capable

of outputting a second stage output signal in response to the first stage output signal;

a third stage capable of outputting the phase adjust signal, having a first stepsize, in response to the second stage output signal;

stall logic, coupled to the first, second and third stages, capable of holding the phase adjust signal in response to the first and second stage output signals;

an indicator, coupled to the third stage, capable of outputting a second step-size in response to the variable data bit-rate; and,

a counter, coupled to the third stage and the indicator, capable of outputting the phase adjust signal having the adjustable step-size in response to the first and second step-sizes. --

2h. Introduce new claim 34 as follows:

--34. (New) The method of claim 30, wherein the signal is received in response to a clock signal and wherein the update rate is a divisor of a frequency of a clock signal. --

2i. Introduce new claim 35 as follows:

--35) (New) The method of claim 30, further comprising determining phase information associated with the plurality of digital data signals including: deserializing the plurality of digital data signals to output a group of data bits in parallel;

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comparing phases of the of the group of digital data bits with a phase of a clock signal to generate the plurality of up signals and the plurality of down signals; and determining the phase information based on the plurality of up signals and the plurality of down signals. --

2j. Introduce new claim 36 as follows:

--36) (New) The method of claim 30, wherein the signal is a data signal having the variable data bit-rate and the signal is received in response to the clock signal and further comprising:

updating a phase of the clock signal based on the adjustable step size. --

2k. Introduce new claim 37 as follows:

--37) (New) The circuit of claim 1, wherein the circuit includes multiple pipelined stages that are controlled by a timing signal having a frequency that is a divisor of a frequency of the clock signal. --

2I. Introduce new claim 38 as follows:

--38) (New) The circuit of claim 1, wherein the circuit further comprises a deserializer coupled between an output of the sampler and the clock circuit, and wherein the circuit compares phases of a plurality of data bits output from the deserializer with the phase of the clock signal to generate a plurality of up signals and a plurality of down signals, the circuit derives the data phase information based on the plurality of up signals and the plurality of down signals. --

3. In the specification:

3a. In line 13 on Page 3 of the specification, replace "the Clock circuit" with --the circuit --.

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3b. In line 20 on Page 3 of the specification, replace "the Clock circuit" with --the circuit --.

3c. In line 22 on Page 3 of the specification, replace "the Clock circuit" with --the circuit --.

3d. Replace the Abstract with:

-- A circuit, such as a CDR circuit, includes a sampler to receive a data signal having a variable data bit-rate responsive to a clock signal in an embodiment of the present invention. A clock circuit is coupled to the sampler and generates the clock signal responsive to a selectable update rate and a selectable phase adjust step-size. In a second embodiment of the present invention, the circuit includes a Stall logic that is coupled to first, second and third stages and is capable to hold the phase adjust signal responsive to the first and second stage output signals. In a third embodiment of the present invention, an indicator detects the variable data bit-rate and a counter provides the selectable phase adjust step-size for the adjust signal. In a fourth embodiment of the present invention, the circuit includes the Stall logic, the indicator and the counter. In a fifth embodiment of the present invention, the circuit includes an Averaging circuit to output a phase adjust signal responsive to the averaging of a first and second adjust signals for a predetermined period of time. --

Allowable Subject Matter

4. Claims 1, 3, 5-8, 10-24, 30 and 35-38 as per examiner's amendment above are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

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- 4a. Regarding claim 1, prior art of record fails to show the circuit, wherein the clock circuit includes a phase adjust step-size logic capable of outputting an adjustable magnitude of the phase step-size in response to the variable data bit-rate, in combination with every other limitation of the claim.
- 4b. Claim 3, 5-8, 12, 13, 37 and 38 are allowed as being dependent on claim 1.
- Ac. Regarding claim 10, prior art of record fails to show the circuit wherein the clock circuit includes a counter for obtaining a first step-size and the indicator provides a second step-size, wherein the first step size and the second step size are summed to obtain the adjustable phase step-size, in combination with every other limitation of the claim. The claim is interpreted in light of the specification, especially Figs. 1 and 7.
- 4d. Claim 11 is allowed as being dependent on claim 10.
- 4e. Regarding claim 14, prior art of record fails to show a circuit with a clock circuit comprising a first stage, coupled to the sampler, capable of outputting a first stage output signal in response to the data signal; a second stage, coupled to the first stage, capable a second stage output signal in response to the first of outputting stage output signal, a third stage, coupled to the second stage, capable outputting the phase adjust signal in response to the second stage output signal; and stall logic, coupled to the first, second and third stages, and capable of holding the phase adjust signal in response to the first and second

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stage output signals, in combination with every other limitation of the claim. The claim is interpreted in light of the specification, especially Figs 1 and 5.

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- 4f. Claims 15-17 are allowed as being dependent on claim 14.
- Ag. Regarding claim 18, prior art of record fails to show a circuit with a clock circuit comprising a first stage, coupled to the sampler, capable of outputting a first stage output signal in response to the data signal; a second stage, coupled to the first stage, capable of outputting a second stage output signal in response to the first stage output signal; a third stage, coupled to the second stage, capable of outputting the phase adjust signal, having a first step-size, in response to the second stage output signal; stall logic, coupled to the first, second and third stages, capable of holding the phase adjust signal in response to the first and second stage output signals; an indicator, coupled to the third stage, capable of outputting a second step-size in response to the variable data bit- rate; and, a counter, coupled to the third stage and the indicator, capable of outputting the phase adjust signal having an adjustable step-size responsive to the first and second step-sizes, in combination with every other limitation of the claim. The claim is interpreted in light of the specification, especially Figs 1, 5 and 7.
- 4h. Claims 19-24 are allowed as being dependent on claim 18.
- 4i. Regarding claim 30, prior art of record fails to show a method for tracking signals wherein selecting an adjustable step-size includes determining a first step-size based on a variable data bit-rate of the signal; determining a second step-size

and summing the first and second step sizes to obtain adjustable the step-size, <u>in</u> combination with each and every other limitation of the claim.

4j. Claims 34, 35 and 36 are allowed as being dependent on claim 18.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Contact Information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VINEETA S. PANWALKAR whose telephone number is (571)272-8561. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

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Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/V. S. P./ Examiner, Art Unit 2611

/Mohammad H Ghayour/ Supervisory Patent Examiner, Art Unit 2611